

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/536,772
Source: PKT
Date Processed by STIC: 6/13/05

ENTERED

BEST AVAILABLE COPY

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/S36,772

CRF Edit Date: 6/13/05
Edited by: TCe

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☒ Deleted: ☒ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:

Raw Sequence Listing before editing,
for reference only



PCT

RAW SEQUENCE LISTING

DATE: 06/13/2005

PATENT APPLICATION: US/10/536,772

TIME: 15:05:39

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06132005\J536772.raw

4 <110> APPLICANT: SHANGHAI CANCER INSTITUTE
6 <120> TITLE OF INVENTION: A HUMAN TUMOR-ASSOCIATED GENE CT120 ON CHROMOSOME 17P 13.3
REGION AND
7 PROTEIN
8 ENCODED BY IT
10 <130> FILE REFERENCE: 024832pc
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/536,772
C--> 12 <141> CURRENT FILING DATE: 2005-05-26
12 <150> PRIOR APPLICATION NUMBER: CN 02150730.9
13 <151> PRIOR FILING DATE: 2002-11-27
15 <160> NUMBER OF SEQ ID NOS: 13
17 <170> SOFTWARE: PatentIn version 3.1
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 2145
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapiens
24 <220> FEATURE:
25 <221> NAME/KEY: CDS
26 <222> LOCATION: (91)..(861)
27 <223> OTHER INFORMATION:
W--> 29 <400> 1
30 cggaggggttg aaatcgcgcg gccggggccgg ggcgcgccga gccgaaccca gccacgcggc 60
31 gccagcgcagg cggccggacc cgcagccccg atg ctg ctg acg ctg gcc ggg ggc 114
32 Met Leu Leu Thr Leu Ala Gly Gly
33 1 5
34 gcg ctc ttc ttc ccg ggg ctc ttc gcg ctc tgc acc tgg gcg ctg cgc 162
35 Ala Leu Phe Phe Pro Gly Leu Phe Ala Leu Cys Thr Trp Ala Leu Arg
36 10 15 20
37 cac tcc cag ccc gga tgg agc cgc acc gac tgc gtg atg atc agc acc 210
38 His Ser Gln Pro Gly Trp Ser Arg Thr Asp Cys Val Met Ile Ser Thr
39 25 30 35 40
40 agg ctg gtt tcc tcg gtg cac gcc gtg ctg gcc acc ggc tcg ggg atc 258
41 Arg Leu Val Ser Ser Val His Ala Val Leu Ala Thr Gly Ser Gly Ile
42 45 50 55
43 gtc atc att cgc tcc tgc gac gac gtg atc acc ggc agg cac tgg ctt 306
44 Val Ile Ile Arg Ser Cys Asp Asp Val Ile Thr Gly Arg His Trp Leu
45 60 65 70
46 gcc cgg gaa tat gtg tgg ttt ctg att cca tac atg atc tat gac tcg 354
47 Ala Arg Glu Tyr Val Trp Phe Leu Ile Pro Tyr Met Ile Tyr Asp Ser
48 75 80 85
49 tac gcc atg tac ctc tgt gaa tgg tgc cga acc aga gac cag aac cgt 402
50 Tyr Ala Met Tyr Leu Cys Glu Trp Cys Arg Thr Arg Asp Gln Asn Arg
51 90 95 100
52 gcg ccc tcc ctc act ctt cga aac ttc cta agt cga aac cgc ctc atg 450

RAW SEQUENCE LISTING

DATE: 06/13/2005

PATENT APPLICATION: US/10/536,772

TIME: 15:05:39

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06132005\J536772.raw

```

53 Ala Pro Ser Leu Thr Leu Arg Asn Phe Leu Ser Arg Asn Arg Leu Met
54 105 110 115 120
55 atc aca cat cat gcg gtc att ctc ctt gtc ctt gtg cca gtc gca cag 498
56 Ile Thr His His Ala Val Ile Leu Leu Val Leu Val Pro Val Ala Gln
57 125 130 135
58 agg ctc cgg gga gac ctt ggg gac ttc ttt gtc ggc tgc atc ttc acg 546
59 Arg Leu Arg Gly Asp Leu Gly Asp Phe Phe Val Gly Cys Ile Phe Thr
60 140 145 150
61 gca gaa ctg agc act ccg ttt gtg tgc ctg ggc agg gtt ctg att cag 594
62 Ala Glu Leu Ser Thr Pro Phe Val Ser Leu Gly Arg Val Leu Ile Gln
63 155 160 165
64 cta aag cag cag cac acc ctt ctg tac aag gtg aat gga atc ctc acg 642
65 Leu Lys Gln Gln His Thr Leu Leu Tyr Lys Val Asn Gly Ile Leu Thr
66 170 175 180
67 ctg gcc acc ttc ctt tcc tgc cgg atc ctt ctc ttc ccc ttc atg tac 690
68 Leu Ala Thr Phe Leu Ser Cys Arg Ile Leu Leu Phe Pro Phe Met Tyr
69 185 190 195 200
70 tgg tcc tat ggc cgc cag cag gga cta agc ctg ctc caa gta ccc ttc 738
71 Trp Ser Tyr Gly Arg Gln Gln Gly Leu Ser Leu Leu Gln Val Pro Phe
72 205 210 215
73 agc atc cca ttc tac tgc aac gtg gcc aat gcc ttc ctc gta gct cct 786
74 Ser Ile Pro Phe Tyr Cys Asn Val Ala Asn Ala Phe Leu Val Ala Pro
75 220 225 230
76 cag atc tac tgg ttc tgt ctg ctg tgc agg aag gca gtc cgg ctc ttt 834
77 Gln Ile Tyr Trp Phe Cys Leu Leu Cys Arg Lys Ala Val Arg Leu Phe
78 235 240 245
79 gac act ccc caa gcc aaa aag gat ggc taaatgctcc tgggagtcag 881
80 Asp Thr Pro Gln Ala Lys Lys Asp Gly
81 250 255
82 gcgcagcctc acaccagctg cctcctccac tcagcattcc atggacccaa ttgtgccttg 941
83 ggtagcctca gactttgggt attgataagc cgatggattt gagtttttct aaagaatatt 1001
84 catattacct cctttttcta acttgcccta tttgcaaacg cacttttgta gtaacaacta 1061
85 ttgggtcctg tcagacctcc acggacagca aagtggtttt aatgcaagcc caaggatcct 1121
86 tcttaaggte ttatctcaag agctctggga ggtggaagca tggggtggga tcggtggacc 1181
87 aggggtggtaa gtgtctgcac atctgcctgt ccctgtatca gcggctaccc accttccaaa 1241
88 ccactcagga cagtacctgt ggcactgggc ccgcagaagc aagggatgac ttggttcttg 1301
89 gaagtaatgt cgtcttgtga cattggcctg ggacaatcat tgtgggtagg tagttattga 1361
90 tcgtttacta gataacccat tggttctttg cctcatcctc tcatccatgg gtcagagttg 1421
91 aattcttatg tctatagact tccaatcaga agtctcactg gtggggctgg ggggtggggc 1481
92 aggcaggagg catggatggg aacctgagta ggtagtgtgg ccaagagatc agcacaacct 1541
93 ttgcaggctg acttgctaag tctgacagtg acaaacttgt gagcttactg cagtcagtca 1601
94 cagaggctgt tctttttcac acaccttctc atgcccggct tccccatat ccacatgcag 1661
95 agggcgagct cataaaacta cagggaagcg tgaaatgatg gctttggtag ctgtttactg 1721
96 ggtaacccca ctgtgacact gtctttttca tgtgatgtgg aaacctactt ctgtcctcca 1781
97 aaccatgaaa tgtgtcaact agactgcaga gtactcgagt gctttgcctc ccgatagcc 1841
98 agagcttgtg gtccaaagcc cattcctgtg tgtccgtcct gccatttagc cacagaaggc 1901
99 tgcggagtga ggcggcagct agcctggcca gtggctgtcc cgtggaccga cacctgcgcc 1961
100 cccttctgca agcaggattt tctggtgcca acactcatc atcattcccg atcaactagg 2021
101 atgaatttaa gactgtgcta ccatgtgttc tcaagtggta gtttaaaaag tggattttta 2081

```

RAW SEQUENCE LISTING

DATE: 06/13/2005

PATENT APPLICATION: US/10/536,772

TIME: 15:05:39

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06132005\J536772.raw

```

102 aagtgccttt caattgtctg tgaacgtcta aaggactgat ttgtctcaaa aaaaaaaaaa 2141
103 aaaa 2145
105 <210> SEQ ID NO: 2
106 <211> LENGTH: 257
107 <212> TYPE: PRT
108 <213> ORGANISM: Homo sapiens
110 <400> SEQUENCE: 2
111 Met Leu Leu Thr Leu Ala Gly Gly Ala Leu Phe Phe Pro Gly Leu Phe
112 1 5 10 15
113 Ala Leu Cys Thr Trp Ala Leu Arg His Ser Gln Pro Gly Trp Ser Arg
114 20 25 30
115 Thr Asp Cys Val Met Ile Ser Thr Arg Leu Val Ser Ser Val His Ala
116 35 40 45
117 Val Leu Ala Thr Gly Ser Gly Ile Val Ile Ile Arg Ser Cys Asp Asp
118 50 55 60
119 Val Ile Thr Gly Arg His Trp Leu Ala Arg Glu Tyr Val Trp Phe Leu
120 65 70 75 80
121 Ile Pro Tyr Met Ile Tyr Asp Ser Tyr Ala Met Tyr Leu Cys Glu Trp
122 85 90 95
123 Cys Arg Thr Arg Asp Gln Asn Arg Ala Pro Ser Leu Thr Leu Arg Asn
124 100 105 110
125 Phe Leu Ser Arg Asn Arg Leu Met Ile Thr His His Ala Val Ile Leu
126 115 120 125
127 Leu Val Leu Val Pro Val Ala Gln Arg Leu Arg Gly Asp Leu Gly Asp
128 130 135 140
129 Phe Phe Val Gly Cys Ile Phe Thr Ala Glu Leu Ser Thr Pro Phe Val
130 145 150 155 160
131 Ser Leu Gly Arg Val Leu Ile Gln Leu Lys Gln Gln His Thr Leu Leu
132 165 170 175
133 Tyr Lys Val Asn Gly Ile Leu Thr Leu Ala Thr Phe Leu Ser Cys Arg
134 180 185 190
135 Ile Leu Leu Phe Pro Phe Met Tyr Trp Ser Tyr Gly Arg Gln Gln Gly
136 195 200 205
137 Leu Ser Leu Leu Gln Val Pro Phe Ser Ile Pro Phe Tyr Cys Asn Val
138 210 215 220
139 Ala Asn Ala Phe Leu Val Ala Pro Gln Ile Tyr Trp Phe Cys Leu Leu
140 225 230 235 240
141 Cys Arg Lys Ala Val Arg Leu Phe Asp Thr Pro Gln Ala Lys Lys Asp
142 245 250 255
143 Gly
146 <210> SEQ ID NO: 3
147 <211> LENGTH: 25
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial
151 <220> FEATURE:
152 <221> NAME/KEY: misc_feature
153 <222> LOCATION: (1)..(25)
154 <223> OTHER INFORMATION: primer
156 <400> SEQUENCE: 3

```

RAW SEQUENCE LISTING

DATE: 06/13/2005

PATENT APPLICATION: US/10/536,772

TIME: 15:05:39

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06132005\J536772.raw

```

157 gtgcgactgg cacaaggaca aagag                                25
159 <210> SEQ ID NO: 4
160 <211> LENGTH: 23
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial
164 <220> FEATURE:
165 <221> NAME/KEY: misc_feature
166 <222> LOCATION: (1)..(23)
167 <223> OTHER INFORMATION: primer
169 <400> SEQUENCE: 4
170 cgaatgatga cgatccccga gcc                                23
172 <210> SEQ ID NO: 5
173 <211> LENGTH: 22
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (1)..(22)
180 <223> OTHER INFORMATION: primer
182 <400> SEQUENCE: 5
183 ccgatgctgc tgacgctggc cg                                22
185 <210> SEQ ID NO: 6
186 <211> LENGTH: 25
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (1)..(25)
193 <223> OTHER INFORMATION: primer
195 <400> SEQUENCE: 6
196 tgttggcacc agaaaatcct gcttg                                25
198 <210> SEQ ID NO: 7
199 <211> LENGTH: 20
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial
203 <220> FEATURE:
204 <221> NAME/KEY: misc_feature
205 <222> LOCATION: (1)..(20)
206 <223> OTHER INFORMATION: primer
208 <400> SEQUENCE: 7
209 aagtactccg tgtggatcgg                                20
211 <210> SEQ ID NO: 8
212 <211> LENGTH: 20
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial
216 <220> FEATURE:
217 <221> NAME/KEY: misc_feature
218 <222> LOCATION: (1)..(20)
219 <223> OTHER INFORMATION: primer

```

RAW SEQUENCE LISTING

DATE: 06/13/2005

PATENT APPLICATION: US/10/536,772

TIME: 15:05:39

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06132005\J536772.raw

```

221 <400> SEQUENCE: 8
222 tcaagttggg ggacaaaaag                                20
224 <210> SEQ ID NO: 9
225 <211> LENGTH: 25
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial
229 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <222> LOCATION: (1)..(25)
232 <223> OTHER INFORMATION: primer
234 <400> SEQUENCE: 9
235 gtgcgactgg cacaaggaca aagag                            25
237 <210> SEQ ID NO: 10
238 <211> LENGTH: 23
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: (1)..(23)
245 <223> OTHER INFORMATION: primer
247 <400> SEQUENCE: 10
248 ggggatcgtc atcatcgct cct                                23
250 <210> SEQ ID NO: 11
251 <211> LENGTH: 15
252 <212> TYPE: PRT
253 <213> ORGANISM: Artificial
255 <220> FEATURE:
256 <221> NAME/KEY: MISC_FEATURE
257 <222> LOCATION: (1)..(15)
258 <223> OTHER INFORMATION: oligopeptide corresponding to C-terminus of CT120 protein
260 <400> SEQUENCE: 11
262 Cys Arg Lys Ala Val Arg Leu Phe Asp Thr Pro Gln Ala Lys Lys
263 1          5          10          15
265 <210> SEQ ID NO: 12
266 <211> LENGTH: 20
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature
272 <222> LOCATION: (1)..(20)
273 <223> OTHER INFORMATION: primer
275 <400> SEQUENCE: 12
276 atgctgctga cgctggccgg                                20
278 <210> SEQ ID NO: 13
279 <211> LENGTH: 20
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial
283 <220> FEATURE:
284 <221> NAME/KEY: misc_feature

```


RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/536,772

DATE: 06/13/2005
TIME: 15:05:40

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\06132005\J536772.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/536,772

DATE: 06/13/2005

TIME: 15:05:40

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06132005\J536772.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:29 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:27